



J.R. SIMPLOT COMPANY 1130 W. HIGHWAY 30 POCATELLO, IDAHO 83204
P.O. BOX 912 POCATELLO, IDAHO 83204
(208) 235-5602 FAX (208) 235-5699

CORPORATE – POCATELLO OFFICE

September 8, 2015

Mary Kauffman
USDA Forest Service – Caribou National Forest
1405 Hollipark Drive
Idaho Falls, Idaho 83401

**Subject: Smoky Canyon Mine Remedial Investigation/Feasibility Study (RI/FS)
Final Pilot Study Work Plan and Sampling and Analysis Plan
Biological Selenium Removal Treatment Technology Fluidized Bed Bioreactor**

Addendum 03 – Pilot Test Plan: Bioreactor Post Treatment with Oxidant

Dear Mary:

Attached to this transmittal letter, in electronic format, is Addendum 03 of the *Final Pilot Study Work Plan and Sampling and Analysis Plan (Work Plan/SAP), Biological Selenium Removal Treatment Technology Fluidized Bed Bioreactor*. This submittal provides the *Pilot Test Plan: Bioreactor Post Treatment with Oxidant* by Frontier Water Systems (August 26, 2015) which is designed to address the occurrence of the filamentous sulfide-oxidizing Thiothrix Type 1 bacteria. The aeration step in the fluidized bed bioreactor (FBR) process was cultivating these bacteria, resulting in clogging of the filter media and shutdown of the bioreactor in early August 2015.

The *Pilot Test Plan* specifies the proposed remedy, plant modifications, and test plan for this process. To address the bacteria issue, sulfide will be removed from the stream prior to aeration by adding hydrogen peroxide. Other adjustments to the stream also will be made to ensure pH control. Field testing and field measurements will be performed, along with the required monitoring as specified in the *Final Pilot Study Work Plan/SAP* (September 2014) and in *Addendum 01* of the *Work Plan/SAP* (July 2015).

With your approval, Simplot plans to operate the treatability study pilot using the sulfide-oxidizing bacteria control process described herein.

Please contact me if you have any questions.

Sincerely,

Monty Johnson
Environmental Engineering Manager

Enclosures

Cc: Submitted to the following in electronic (pdf) format via email, with the exception of paper copy to USFS, Soda Springs only. Paper copies available upon request.

Mary Kauffman - USDA Forest Service, 410 East Hooper, Soda Springs, ID 83276 (paper copy)
James Alexander - USDA Office of the General Counsel
Wayne Crowther - IDEQ, 444 Hospital Way, Suite 300, Pocatello, ID 83201
Brady Johnson - IDEQ, 1410 North Hilton, Boise, ID 83706
Colleen O'Hara-Epperly- BLM, 4350 South Cliffs Dr., Pocatello, ID 83204
Sandi Fisher- USFWS, 4425 Burley Dr., Suite A, Chubbuck, ID 83202
Matt Wilkening - USEPA, 950 West Bannock St., Suite 900, Boise, ID 83702
Ted Yackulic - USEPA, 1200 Sixth Avenue, Seattle, WA 98101
Kelly Wright - Shoshone-Bannock Tribes, P.O. Box 306, Fort Hall, ID 83203
Susan Hanson - (b) (6)
Gary Billman - IDL, 3563 East Ririe Highway, Idaho Falls, ID 83401
Rick McCormick- CH2M Hill, 322 East Front St., Suite 200, Boise, ID 83702
Jeff Osterman - CH2M Hill, 322 East Front St., Suite 200, Boise, ID 83702
Doug Scott - CH2M Hill, 59 Lilac Court, Pagosa Springs, CO 81147
Alan Prouty - J.R. Simplot Company, P.O. Box 27, Boise, ID 83707
Burl Ackerman - J.R. Simplot Company, P.O. Box 27, Boise, ID 83707
Chad Gentry - J.R. Simplot Company, P.O. Box 1270, Afton, WY 83110
Fred Charles - Formation Environmental, 2500 55th St., Boulder, CO 80301